WHAT IS CLAIMED IS:

1. A layer arrangement comprising:

(a) at least one transparent substrate having an electrically conductive layer,

(b) an electro-optically active layer, and

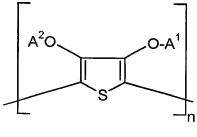
(c) an additional substrate having an electrically conductive layer, wherein at least one of the two electrically conductive substrates is coated with an organic conductive polymer system.

2. The layer arrangement according to Claim 1, wherein the transparent conductive layer on the substrates comprises a metal, a metal oxide, or mixed oxides.

3. The layer arrangement according to Claim 2, wherein the metal, metal oxide or mixed oxides is or are doped.

4. The layer arrangement according to Claim 1, wherein the organic conductive polymer system is a polyaniline, polypyrrole or polythiophene system.

5. The layer arrangement according to Claim 4, wherein the organic conductive polymer system is a cationically charged polythiophene comprising structural units of the formula (I)



(I)

wherein

A^1 and A^2, independently of one another, are optionally substituted $(C_1\text{-}C_{18})$-alkyl or together form optionally substituted $(C_1\text{-}C_{18})$-alkylene, and

n is an integer from 2 to 10,000,

in the presence of anions or polyanions.

6. The layer arrangement according to Claim 1, wherein the transparent substrate comprises glass or a plastic.

7. The layer arrangement according to Claim 6, wherein the plastic is polycarbonate or copolycarbonate, polyester, polysulfone, polyether sulfone, polyimide, polypropylene, polyethylene or a cyclic olefin copolymer or hydrogenated styrene (co)polymer.

8. The layer arrangement according to Claim 1, wherein at least one of the two substrates is a plastic substrate.

9. The layer arrangement according to Claim 8, wherein the plastic is polycarbonate or copolycarbonate, polyester, polysulfone, polyether sulfone, polyimide, polypropylene, polyethylene or a cyclic olefin copolymer or hydrogenated styrene (co)polymer.

10. The layer arrangement according to Claim 8, wherein the plastic substrate is provided with a scratch-resistant and/or chemical-resistant finish.

11. The layer arrangement according to Claim 1, wherein the electro-optically active layer is a liquid-crystal layer.

12. The layer arrangement according to Claim 1, wherein the arrangement is encapsulated.

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